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NOTICE OF ALLOWANCE AND FEE(S) DUE

32628

7590

12/07/2009

KANESAKA BERNER AND PARTNERS LLP 1700 DIAGONAL RD SUITE 310 ALEXANDRIA, VA 22314-2848

| EXAMINER | | | | |
|-----------------|--------------|--|--|--|
| CUEVAS, PEDRO J | | | | |
| ART UNIT | PAPER NUMBER | | | |

DATE MAILED: 12/07/2009

2839

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/590,328 | 06/25/2007 | Tsuyoshi Wakasa | OLI-008 | 8328 |

TITLE OF INVENTION: WIND TURBINE GENERATOR, ACTIVE DAMPING METHOD THEREOF, AND WINDMILL TOWER

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 03/08/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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| | | pa | apers. Each addition | al paper | , such as an assignmer lling or transmission. | nt or formal drawing, must | |
| 32628 7590 12/07/2009 KANESAKA BERNER AND PARTNERS LLP 1700 DIAGONAL RD SUITE 310 | | | I S | Ce hereby certify that the tates Postal Service belowed to the Mai | rtificate nis Fee(with suf | e of Mailing or Transr | deposited with the United t class mail in an envelope |
| ALEXANDRIA | A, VA 22314-2848 | | | | | | (Depositor's name) |
| | | | | | | | (Signature) |
| | | | L | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTO | OR | ATTO | RNEY DOCKET NO. | CONFIRMATION NO. |
| 10/590,328 | 06/25/2007 | • | Tsuyoshi Wakasa | | | OLI-008 | 8328 |
| | | NERATOR, ACTIVE DA | | | | | |
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| nonprovisional | NO | \$1510 | \$300 | \$0 | | \$1810 | 03/08/2010 |
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| | , PEDRO J lence address or indicatio | 2839 | 290-044000 2. For printing on the | | | | |
| CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON PLEASE NOTE: Unless an assignee is identified below, no assignee | | | or agents OR, alterna (2) the name of a sir registered attorney of 2 registered patent a listed, no name will THE PATENT (print or data will appear on the | (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. HE PATENT (print or type) lata will appear on the patent. If an assignee is identified below, the document has been filed for | | | |
| (A) NAME OF ASSI | GNEE | pletion of this form is NC | (B) RESIDENCE: (CI | ΓΥ and STATE OR 0 | | , | up entity 🖵 Government |
| 4a. The following fee(s) | are submitted: | 4 | b. Payment of Fee(s): (P | lease first reannly a | nv nrev | viously naid issue fee s | hown above) |
| Issue Fee | | | A check is enclosed | l. | | | nown above, |
| ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies | | | ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any | | | | iciency or credit any |
| | | | overpayment, to De | posit Account Numb | er | (enclose ar | extra copy of this form). |
| _ ° ' | atus (from status indicated as SMALL ENTITY statu | / | ☐ b. Applicant is no l | onger claiming SMA | LL EN | FITY status. See 37 CE | FR 1 27(g)(2) |
| NOTE: The Issue Fee ar | nd Publication Fee (if req | | ed from anyone other tha | | | | e assignee or other party in |
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| This collection of inforn an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22. | ntiality is governed by 35 and application form to the cions for reducing this but Virginia 22313-1450. DC | LEK 1.311. The informatic U.S.C. 122 and 37 CFR is USPTO. Time will vary rden, should be sent to the DOT SEND FEES OR | on is required to obtain of 1.14. This collection is 4 depending upon the included the Chief Information Off COMPLETED FORMS | or retain a benefit by estimated to take 12 dividual case. Any cicer, U.S. Patent and TO THIS ADDRES | minutes omment Traden S. SEN | uc which is to file (and s to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| KANESAKA BERNER AND PARTNERS LLP | | | CUEVAS, | PEDRO J |
| 1700 DIAGONAL RD | | | ART UNIT | PAPER NUMBER |
| SUITE 310 ALEXANDRIA, VA 22314-2848 | | | 2839 DATE MAILED: 12/07/200 | 9 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 344 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 344 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Applicant(s) | |
|--|--|---|----|
| | 10/590,328 | WAKASA ET AL. | |
| Notice of Allowability | Examiner | Art Unit | |
| | PEDRO J. CUEVAS | 2839 | |
| The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is and MPEP 1308. | in this application. If not included nunication will be mailed in due course. TH | |
| 2. ☑ The allowed claim(s) is/are <u>1,2,4,6-10,12 and 14-17</u> . | | | |
| 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). | been received. been received in Applicate | ion No | ne |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give | IENT of this application. itted. Note the attached Ex | (AMINER'S AMENDMENT or NOTICE OF | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | , , , | | |
| (a) ☐ including changes required by the Notice of Draftspers | | ew (PTO-948) attached | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | • | on (1 10 0 10) attached | |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 | s Amendment / Comment .84(c)) should be written on | the drawings in the front (not the back) of | |
| each sheet. Replacement sheet(s) should be labeled as such in t | - | ` ' | |
| DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. Interview | nformal Patent Application Summary (PTO-413), b./Mail Date | |
| 3. MInformation Disclosure Statements (PTO/SB/08), | | s Amendment/Comment | |
| Paper No./Mail Date <u>8/6/09</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. ⊠ Examiner 9. | s Statement of Reasons for Allowance | |
| | /T C Patel/ Supervisory P | atent Examiner, Art Unit 2839 | |

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 8 and 9, filed on November 4, 2009, with respect to claims 1, 2, 4, 6-10, 12 and 14-17 have been fully considered and are persuasive. The 35 U.S.C. § 102(b) and § 103(a) rejection(s) of claims 1-4, 7-12 and 15-17 have been withdrawn.

Allowable Subject Matter

2. Claims 1, 2, 4, 6-10, 12 and 14-17 are allowed.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance.

The prior art of record teach the construction of wind turbine generators having pitchangle control mechanisms and active damping units. Said devices use a plurality of wind turbine parameters obtained from a plurality of sensors to control blade pitch and generator operation.

The prior art of record, taken alone or in combination, does not teaches the construction of a wind turbine generator as described on and including all the disclosed limitations of independent claims 1 and 2, comprising a control unit that:

includes a phase-lead compensator for advancing the phase of the speed output from the speed estimation unit by a predetermined amount; and

calculates the pitch angle on the basis of the speed obtained after the phase-lead compensation.

The prior art of record, taken alone or in combination, does not teaches the construction of an active damping method of a wind turbine generator as described on and including all the disclosed limitations of independent claims 9 and 10, comprising:

a control step that includes a phase-lead compensation step of advancing the phase of the speed estimated by the speed estimation step by a predetermined amount and calculates the pitch angle on the basis of the speed obtained after the phase-lead compensation.

The prior art of record, taken alone or in combination, does not teaches the construction of a windmill tower comprising the wind turbine generator as described on and including all the disclosed limitations of independent claims 1 or 2.

Dependent claims 4, 6-8, 12 and 14-17 are considered allowable by their respective dependence on objected dependent claims 1, 2, 9 and 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PEDRO J. CUEVAS whose telephone number is (571)272-2021. The examiner can normally be reached on M-F from 9:00 - 6:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T. C. Patel can be reached on (571) 272-2098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Pedro J. Cuevas/ Examiner, Art Unit 2839 December 5, 2009

/T C Patel/ Supervisory Patent Examiner, Art Unit 2839